PRANAV PATEL

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EDUCATION

Claremont McKenna College, Claremont, CA   **May 2026**
Bachelor of Arts
- Major in Economics
- GPA: 3.8/4.0
- Relevant Coursework/Topics: Linear Algebra, Multivariable Calculus, Discrete Mathematics

Harvey Mudd College, Claremont, CA   **May 2026**
Bachelor of Computer Science
- Major in Computer Science

SKILLS & INTERESTS
- Machine Learning
  - Consumer Behavior Analysis on Bank Consumer Data to Output Likelihood of Investment
    - 92% accuracy on testing data
  - Classification Model on Census Income Data
    - 78% accuracy on testing data
  - LSTM Model to Predict Stock Prices
- Program Development/Big Data Analysis
  - PRS Analysis Pipeline Generator
- Web Technologies
  - Personal Website

EXPERIENCE

Northwestern School of Medicine – Chicago, IL   **Aug 2022 – Present**
Analyst, Steven Lubbe Lab for Motion-Debilitating Disease
- Developed and implemented computational models for polygenic risk analysis via Python, C++, and R, collaborating with post-doctoral researchers and Dr. Steven Lubbe
- Constructed logistic regression model for Genome-Wide Association Study on NIAGADS WES data (1 TB); included collapsing burden analysis, Bonferroni Correction, and Manhattan Plot Visualization (pipeline)
- Developed command-line interfaces for multiple big-data projects to streamline data processing, analysis, and visualization resulting in 50% decrease in user-specific command input; used Python and Java (github)
- Devised big-data analysis methodologies in genetic admixture analysis; liaised with Dr. Steven Lubbe to ensure effective analysis and streamlining of existing methodologies; methodology presented at Japan Super Science Fair 2023 (paper)

Student Connection – Claremont, CA   **Aug 2022 – Present**
Analyst, Research Team
- Developing analysis software to automate analyses on manual-entry qualitative and quantitative data
- Develop research methodologies through analysis of current literature
- Utilization of Excel for analyses of qualitative and quantitative data and identification of trends
- Extracted and processed historical stock prices for insertion in Tensorflow-based Long-Short-Term Memory (LSTM) Model for predictive analytics; model consistently performed < 5 RSME